

K-69
RECEIVED

OCT 31 1988

WATER RIGHTS
SALT LAKE

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-Feet
STATE OF UTAH

RECEIVED
OCT 01 1988
WATER RIGHTS
SALT LAKE

Application No. 88R195
Received 11-8-88
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet.

1. APPLICANT INFORMATION

Name(s): Tenneco Minerals Company
Address: P.O. Box 2650
City: St. George State: Utah Zip Code: 84770

2. PURPOSE OF DAM

Stock Pond _____ Regulating Res. _____ Diversion Dam _____
Irrigation _____ Debris Basin _____ Flood Control _____
Sedimentation x Tailings Pond _____ Recreation _____
Other (describe) _____

3. LOCATION OF DAM

County Washington Quarter/Quarter (i.e. NESW) NE Section 20
Township 39S Range 18W Base & Meridian SLB & M

4. PROPOSED DAM

Dam Height (vertical distance) 40 feet
Crest Length (length of top of dam) 360 feet
Crest Width (width of top of dam) 65 feet
Upstream slope 1 vertical on 3 horizontal
Downstream slope 1 vertical on 1 1/2 horizontal
Water surface area at spillway crest 1.93 acres
Reservoir capacity at spillway crest 21.3 ac.ft.
Type of dam (i.e. earthfill, concrete, etc.) Earthfill

5. PROPOSED OUTLET

Inside diameter _____ inches Length _____ feet
Type of pipe (i.e. concrete, steel, etc.) _____
Type of gate or valve _____
Location of gate (upstream, downstream, center, etc.) N O N E

6. PROPOSED SPILLWAY

Crest Length (width of bottom of spillway) 12 feet
Depth (from bottom of spillway to top of dam) 4 feet
Type (i.e. earth channel, pipe, etc.) Bedrock Channel
Control (i.e. gates, flashboards, etc.) NONE

Small Dam

7. WATER RIGHTS

Describe (see instructions) Will not hold water.

8. COMMENTS

For silt control only

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer.

10-26-88

Date

Ken A. Khoshdel
Signature of Applicant

Water Rights in Order By NACAS Date November 4, 1988

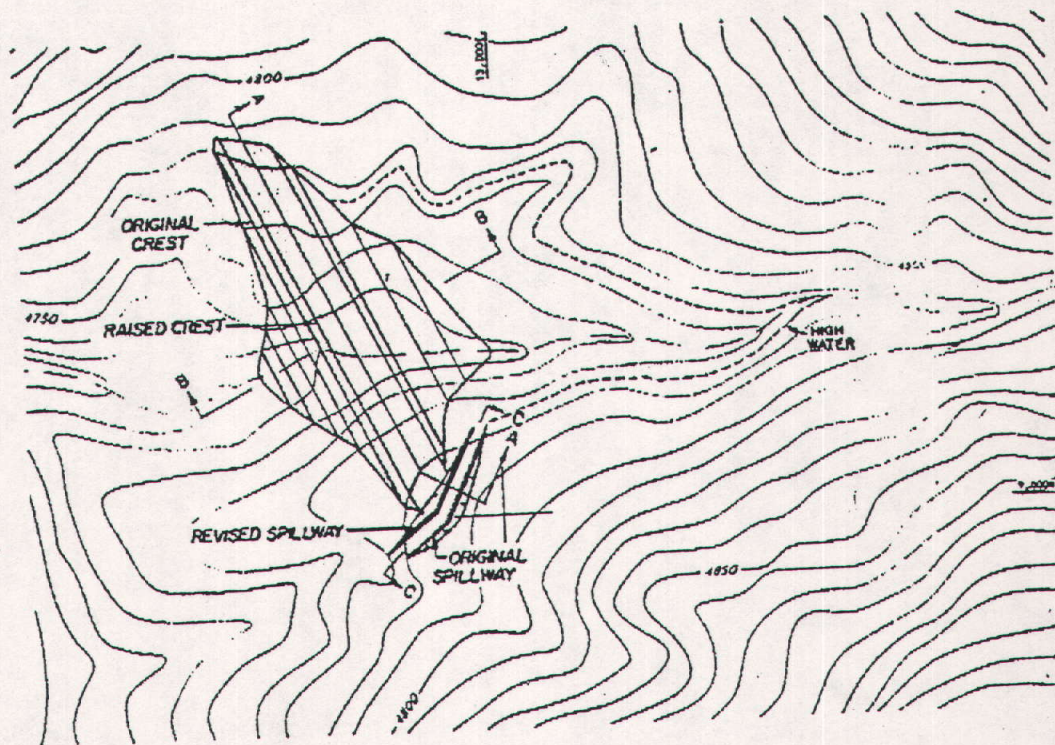
Area Engineer's Hazard Rating Moderate

Reviewed by Dam Safety By _____ Date _____

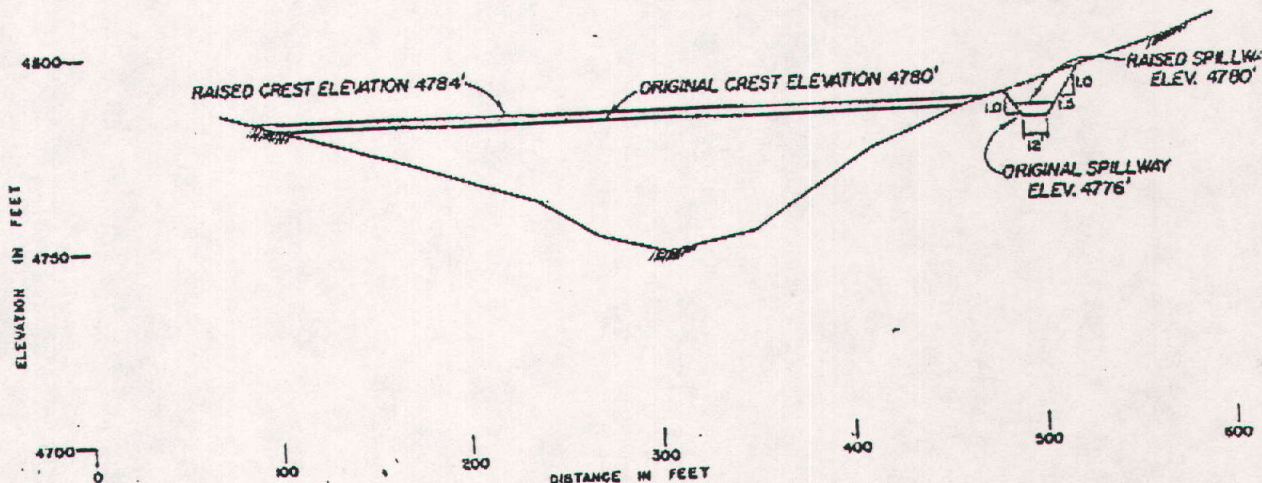
Comments _____

Date of Approval November 8, 1988

Robert L. Morgan
Robert L. Morgan, P.E.
For State Engineer



PLAN

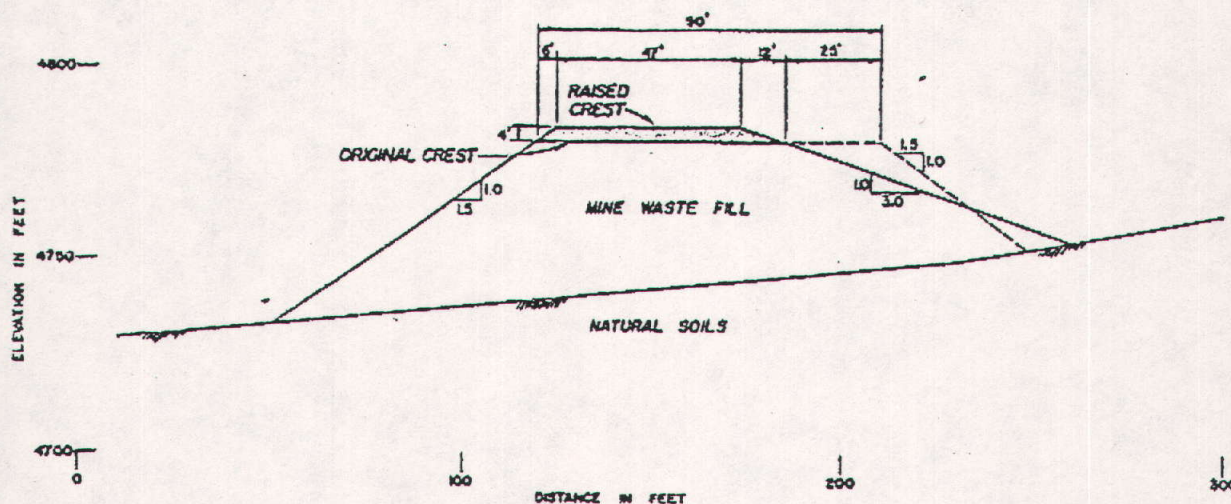


SECTION A-A

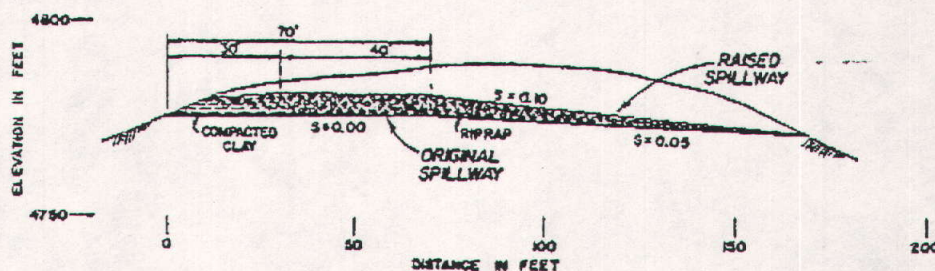
(DAM & SPILLWAY SECTION)

CONSTRUCTION NOTES

- REMOVE VEGETATION AND TOPSOIL FROM EMBANKMENT AREA ONLY.
- END-DUMP THE 90 FOOT WIDE SILT DAM EMBANKMENT FROM ELEVATION 4780 FEET.
- SHAPE THE UPSTREAM FACE TO A THREE HORIZONTAL TO ONE VERTICAL SLOPE.
- COVER ALL LARGE Boulders AT BASE OF FILL WITH A MINIMUM OF 10 FEET OF FINER MATERIAL FROM UPPER PORTION OF THE PLACED EMBANKMENT.
- USE SURFACE ALLUVIUM TO SUPPLEMENT THE FINE EMBANKMENT MATERIAL AS REQUIRED TO OBTAIN THE 10 FOOT FINE MATERIAL COVER.



SECTION B-B
(DAM SECTION)



SECTION C-C
(SPILLWAY PROFILE)

GEORGE C. JBR
10/25/90
9/11/90

REVISION NOTES

1. REVISIONS ARE SHOWN SHADED ON THE SECTIONS.
2. PLACE WELL GRADED MINE WASTE IN ONE FOOT LAYERS, MOISTEN, AND COMPACT WITH THREE PASSES OF THE HAULING AND/OR PLACING EQUIPMENT.
3. PLACE CLAY PLUS IN SPILLWAY IN SIX INCH LAYERS AT OR NEAR OPTIMUM MOISTURE AND COMPACT TO 95 PERCENT OF THE MAXIMUM D-600 DENSITY.
4. PLACE RIPRAP IN SPILLWAY. MAXIMUM RIPRAP SIZE SHALL BE TWO FEET, AND APPROXIMATELY ONE-HALF OF THE RIPRAP SHALL BE ONE FOOT. NO MORE THAN TEN PERCENT OF THE RIPRAP SHALL BE SMALLER THAN ONE INCH.

Tenneco Minerals		DRAWING STATUS	
SEDIMENTATION DAM		APPROVED FOR CONSTRUCTION	DATE
		REVISOR'S APPROVED FOR CONSTRUCTION	DATE
		DAM RAISE	9-11-90